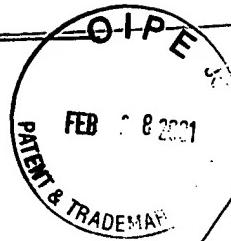




seq1010.ST25



SEQUENCE LISTING

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<110> Sedivy, John
Kolch, Walter
Yeung, Kam Chi

<120> Kinase Inhibitors and Methods of Use in Screening Assays and Modulation of Cell Proliferation and Growth

<130> 3564/1010

<140> 09/654,281

<141> 2000-09-01

<150> 60/151,992

<151> 1999-09-01

<160> 11

<170> PatentIn version 3.0

<210> 1

<211> 42

<212> PRT

<213> Artificial/Unknown

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<222> (3)..(5)

<223> X = any amino acid

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<222> (9)..(9)

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<222> (11)..(13)

<223> X = any amino acid

<220>

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<222> (14)..(14)

<223> B = a negatively charged amino acid residue

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<223> X = any amino acid residue

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1				5					10					15	

Xaa	Xaa	Glu	Xaa	Xaa	His	Xaa	Tyr	Xaa	Xaa	Xaa	Pro	Xaa	Gly	Xaa	
				20				25				30			

His	Arg	Xaa	Val	Xaa	Glx	Xaa	Xaa	Xaa	Gln						
				35			40								

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 <211> 187
 <212> PRT
 <213> Homo sapiens

<400> 2

Met	Pro	Val	Asp	Leu	Ser	Lys	Trp	Ser	Gly	Pro	Leu	Ser	Leu	Gln	Glu
1				5					10				15		

Val	Asp	Glu	Gln	Pro	Gln	His	Pro	Leu	His	Val	Thr	Tyr	Ala	Gly	Ala
				20				25				30			

Ala	Val	Asp	Glu	Leu	Gly	Lys	Val	Leu	Thr	Pro	Thr	Gln	Val	Lys	Asn
				35			40				45				

Arg	Pro	Thr	Ser	Ile	Ser	Trp	Asp	Gly	Leu	Asp	Ser	Gly	Lys	Leu	Tyr
				50			55			60					

Thr	Leu	Val	Leu	Thr	Asp	Pro	Asp	Ala	Pro	Ser	Arg	Lys	Asp	Pro	Lys
				65			70			75		80			

Tyr	Arg	Glu	Trp	His	His	Phe	Leu	Val	Val	Asn	Met	Lys	Gly	Asn	Asp
					85			90			95				

Ile	Ser	Ser	Gly	Thr	Val	Leu	Ser	Asp	Tyr	Val	Gly	Ser	Gly	Pro	Pro
					100			105			110				

Lys	Gly	Thr	Gly	Leu	His	Arg	Tyr	Val	Trp	Leu	Val	Tyr	Glu	Gln	Asp
					115			120			125				

Arg	Pro	Leu	Lys	Cys	Asp	Glu	Pro	Ile	Leu	Ser	Asn	Arg	Ser	Gly	Lys
					130			135			140				

His	Arg	Gly	Lys	Phe	Lys	Val	Ala	Ser	Phe	Arg	Lys	Tyr	Glu	Leu	
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	--

145	150	155	160
Arg Ala Pro Val Ala Gly Thr Cys Tyr Gln Ala Glu Trp Lys Lys Tyr			
165	170	175	
Val Pro Lys Leu Tyr Glu Gln Leu Ser Gly Lys			
180	185		
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<211> 187			
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<213> Mus musculus			
 <220>			
<221> UNSURE			
<222> (150)..(150)			
<223> X = any amino acid residue			
 <400> 3			
Met Ala Ala Asp Ile Ser Gln Trp Ala Gly Pro Leu Cys Leu Gln Glu			
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Val Asp Glu Pro Pro Gln His Ala Leu Arg Val Asp Tyr Ala Gly Val			
20	25	30	
Thr Val Asp Glu Leu Gly Lys Val Leu Thr Pro Thr Gln Val Met Asn			
35	40	45	
Arg Pro Ser Ser Ile Ser Trp Asp Gly Leu Asp Pro Gly Lys Leu Tyr			
50	55	60	
Thr Leu Val Leu Thr Asp Pro Asp Ala Pro Ser Arg Lys Asp Pro Lys			
65	70	75	80
Phe Arg Glu Trp His His Phe Leu Val Val Asn Met Lys Gly Asn Asp			
85	90	95	
Ile Ser Ser Gly Thr Val Leu Ser Asp Tyr Val Gly Ser Gly Pro Pro			
100	105	110	
Ser Gly Thr Ser Ile His Arg Tyr Val Trp Leu Val Tyr Glu Gln Glu			
115	120	125	
Gln Pro Leu Ser Cys Asp Glu Pro Ile Leu Ser Asn Lys Ser Gly Asp			
130	135	140	
Asn Arg Gly Lys Phe Xaa Val Glu Thr Phe Arg Lys Lys Tyr Asn Leu			
145	150	155	160
Gly Ala Pro Val Ala Gly Thr Cys Tyr Gln Ala Glu Trp Asp Asp Tyr			

165

170

175

Val Pro Lys Leu Tyr Glu Gln Leu Ser Gly Lys
 180 185

<210> 4
 <211> 187
 <212> PRT
 <213> Drosophila

<400> 4

Met Ser Asp Ser Thr Val Cys Phe Ser Lys His Lys Ile Val Pro Asp
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Ile Leu Lys Thr Cys Pro Ala Thr Leu Leu Thr Val Thr Tyr Gly Gly
 20 25 30

Gly Gln Val Val Asp Val Gly Gly Glu Leu Thr Pro Thr Gln Val Gln
 35 40 45

Ser Gln Pro Lys Val Lys Trp Asp Ala Asp Pro Asn Ala Phe Tyr Thr
 50 55 60

Leu Leu Leu Thr Asp Pro Asp Ala Pro Ser Arg Lys Glu Pro Lys Phe
 65 70 75 80

Arg Glu Trp His His Trp Leu Val Val Asn Ile Pro Gly Asn Gln Val
 85 90 95

Glu Asn Gly Val Val Leu Thr Glu Tyr Val Gly Ala Gly Pro Pro Gln
 100 105 110

Gly Thr Gly Leu His Arg Tyr Val Phe Ile Val Phe Lys Gln Pro Gln
 115 120 125

Lys Leu Thr Cys Asn Glu Pro Lys Ile Pro Lys Thr Ser Gly Asp Lys
 130 135 140

Arg Ala Asn Phe Ser Thr Ser Lys Phe Met Ser Lys Tyr Lys Leu Gly
 145 150 155 160

Asp Pro Ile Ala Gly Asn Phe Phe Gln Ala Gln Trp Asp Asp Tyr Val
 165 170 175

Pro Lys Leu Tyr Lys Gln Leu Ser Gly Lys Lys
 180 185

<210> 5
 <211> 220
 <212> PRT
 <213> C. elegans

<400> 5

Met Val Val Leu Val Thr Arg Ser Leu Leu Pro Ala Leu Phe Phe Ala
 1 5 10 15

Ser Arg Ala Pro Phe Ala Ala Ala Thr Thr Ser Ala Arg Phe Gln Arg
 20 25 30

Gly Leu Ala Thr Met Ala Ala Glu Ala Phe Thr Lys His Glu Val Ile
 35 40 45

Pro Asp Val Leu Ala Ser Asn Pro Pro Ser Lys Val Val Ser Val Lys
 50 55 60

Phe Asn Ser Gly Val Glu Ala Asn Leu Gly Asn Val Leu Thr Pro Thr
 65 70 75 80

Gln Val Lys Asp Thr Pro Glu Val Lys Trp Asp Ala Glu Pro Gly Ala
 85 90 95

Leu Tyr Thr Leu Thr Lys Thr Asp Pro Asp Ala Pro Ser Arg Lys Glu
 100 105 110

Pro Thr Tyr Arg Glu Trp His His Trp Leu Val Val Asn Ile Pro Gly
 115 120 125

Asn Asp Ile Ala Lys Gly Asp Thr Leu Ser Glu Tyr Ile Gly Ala Gly
 130 135 140

Pro Pro Lys Thr Gly Leu His Arg Tyr Val Tyr Leu Ile Tyr Lys Gln
 145 150 155 160

Ser Gly Arg Ile Glu Asp Ala Glu His Gly Arg Leu Thr Asn Thr Ser
 165 170 175

Gly Asp Lys Arg Gly Gly Trp Lys Ala Ala Asp Phe Val Ala Lys His
 180 185 190

Lys Leu Gly Ala Pro Val Phe Gly Asn Leu Phe Gln Ala Glu Tyr Asp
 195 200 205

Asp Tyr Val Pro Ile Leu Asn Lys Gln Leu Gly Ala
 210 215 220

<210> 6

<211> 181

<212> PRT

<213> Antirrhinum-CEN

<400> 6

Met Ala Ala Lys Val Ser Ser Asp Pro Leu Val Ile Gly Arg Val Ile
 1 5 10 15

Gly Asp Val Val Asp His Phe Thr Ser Thr Val Lys Met Ser Val Ile
 20 25 30

Tyr Asn Ser Asn Asn Ser Ile Lys His Val Tyr Asn Gly His Glu Leu
 35 40 45

Phe Pro Ser Ala Val Thr Ser Thr Pro Arg Val Glu Val His Gly Gly
 50 55 60

Asp Met Arg Ser Phe Phe Thr Leu Ile Met Thr Asp Pro Asp Val Pro
 65 70 75 80

Gly Pro Ser Asp Pro Tyr Leu Arg Glu His Leu His Trp Ile Val Thr
 85 90 95

Asp Ile Pro Gly Thr Thr Asp Ser Ser Phe Gly Lys Glu Val Val Ser
 100 105 110

Tyr Glu Met Pro Arg Pro Asn Ile Gly Ile His Arg Phe Val Phe Leu
 115 120 125

Leu Phe Lys Gln Lys Lys Arg Gly Gln Ala Met Leu Ser Pro Pro Val
 130 135 140

Val Cys Arg Asp Gly Phe Asn Thr Arg Lys Phe Thr Gln Glu Asn Glu
 145 150 155 160

Leu Gly Leu Pro Val Ala Ala Val Phe Phe Asn Cys Gln Arg Glu Thr
 165 170 175

Ala Ala Arg Arg Arg
 180

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<211> 176

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<213> Aradopsis-TFL1

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Val Val Gly Asp Val Leu Asp Phe Phe Thr Pro Thr Thr Lys Met Asn
 20 25 30

Val Ser Tyr Asn Lys Lys Gln Val Asn Gly His Glu Leu Phe Pro Ser
 35 40 45

Ser Val Ser Ser Lys Pro Arg Val Glu Ile His Gly Gly Asp Leu Arg
 50 55 60

Ser Phe Phe Thr Leu Val Met Ile Asp Pro Asp Val Pro Gly Pro Ser
 65 70 75 80

Asp Pro Phe Leu Lys Glu His Leu His Trp Ile Val Thr Asn Ile Pro
 85 90 95

Gly Thr Thr Asp Ala Thr Phe Gly Lys Glu Val Val Ser Tyr Glu Leu
 100 105 110

Pro Arg Pro Ser Ile Gly Ile His Arg Phe Val Phe Val Leu Phe Arg
 115 120 125

Gln Lys Gln Arg Arg Val Ile Phe Pro Asn Ile Pro Ser Arg Asp His
 130 135 140

Phe Asn Thr Arg Lys Phe Ala Val Glu Tyr Asp Leu Gly Leu Pro Val
 145 150 155 160

Ala Ala Val Phe Phe Asn Ala Gln Arg Glu Thr Ala Ala Arg Lys Arg
 165 170 175

<210> 8
 <211> 219
 <212> PRT
 <213> Yeast

<400> 8

Met Asn Gln Ala Ile Asp Phe Ala Gln Ala Ser Ile Asp Ser Tyr Lys
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Lys His Gly Ile Leu Glu Asp Val Ile His Asp Thr Ser Phe Gln Pro
 20 25 30

Ser Gly Ile Leu Ala Val Glu Tyr Ser Ser Ser Ala Pro Val Ala Met
 35 40 45

Gly Asn Thr Leu Pro Thr Glu Lys Ala Arg Ser Lys Pro Gln Phe Gln
 50 55 60

Phe Thr Phe Asn Lys Gln Met Gln Lys Ser Val Pro Gln Ala Asn Ala
 65 70 75 80

Tyr Val Pro Gln Asp Asp Asp Leu Phe Thr Leu Val Met Thr Asp Pro
 85 90 95

Asp Ala Pro Ser Lys Thr Asp His Lys Trp Ser Glu Phe Cys His Leu
 100 105 110

Val Glu Cys Asp Leu Lys Leu Leu Asn Glu Ala Thr His Glu Thr Ser
 115 120 125

Gly Ala Thr Glu Phe Phe Ala Ser Glu Phe Asn Thr Lys Gly Ser Asn
 130 135 140

Thr Leu Ile Glu Tyr Met Gly Pro Ala Pro Pro Lys Gly Ser Gly Pro
 145 150 155 160

His Arg Tyr Val Phe Leu Leu Tyr Lys Gln Pro Lys Gly Val Asp Ser
 165 170 175

Ser Lys Phe Ser Lys Ile Lys Asp Arg Pro Asn Trp Gly Tyr Gly Thr
 180 185 190

Pro Ala Thr Gly Val Gly Lys Trp Ala Lys Glu Asn Asn Leu Gln Leu
 195 200 205

Val Ala Ser Asn Phe Phe Tyr Ala Glu Thr Lys
 210 215

<210> 9

<211> 189

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<213> Homo sapiens

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catcatttcc tggtgtca a catgaaggc aatgacatca gcagtggcac agtcctctcc 12
 0

gattatgtgg gctcgcccc tcccaaggc acaggcctgc accgctatgt ctggctggtt 18
 0

tacgagcag 18
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<210> 10

<211> 7

<212> DNA

<213> Artificial/Unknown

<220>

<221> Unsure

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B2
Conclude
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tgantca

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1

1